

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN	435	69.1

000058.85808260-000

RTA I-----FPKQYPIINFTTAGATVQSYTNFIRAVRGRLLTGADVRHEIPV 44

BRIP AAKMAKNVDKPLFTATFNVOASSAD-YATFIAGIRNKLNRNPAHFSHNRPV 49

RTA LPN-RVGLPINQRFILVELSNHAELSVTLALDVTNAYVVGVRAGNSAYFF 93

BRIP LPPVEPNVPPSRWFHVVLKASPTSAGLTLAIRADNIYLEGFKSSDGTWWE 99

RTA HPDNOEDAEAITHLFTDVONRYTFAFGGNYDRLEQLAGNLRENIELGNP 143

BRIP LTPGLIPGATYV-----GFGGTYRDLLGDTDKL-TNVALGRQQ 136

RTA LEEAISALY----YYSTGGTQPLTARSFIICIMISEAARFQ----YIE 185

BRIP LADAVTALHGRTKADKASGPKQOQOAREAVTTLLVMVNEATRFQTVSGFVA 186

RTA GEMRTRIRYNRRSAPDPSVITLENSWGRSLTAIQESNQGAFASPIQLQRR 235

BRIP GLLHPKAVEKSGKIGNEMKAQVNGWODLSAALLKTDVKPPPGKSPAKFA 236

RTA NGSKFSVYDVSILIPIIALMVYRCAP-----PPSSQF 267

BRIP PIEKMGVRTAEQAANTLGILLFVEVPGLTVAKALELFHASGGK 280

FIG. 2

APPROVED	C.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN	435	69.1

003049" 8358P259T560
003049" 8358P259T560

RTA	IFPKQYPIINFTTAGATVQSYTNFIRAVRGRLLTGADVRHEIPVLPNRVG	50
MOMOI I	D-----VNFDLSTAKTYTKFIEDFRATLPFSHKV-YDIPLLYSTIS	42
RTA	LPINQRFILVELSNHAELSVTLALDVTNAYVVGVRAGNSAYFFHPDNQED	100
MOMOI I	--DSRRFILLDLTSYAYETISVAIDVTNVVYVAYRTRDVSYFF---KESP	87
RTA	AEAITHLFTDVQNRYTFAFGGNYDRLEQLAGNLRENIELGNGLPEEAISA	150
MOMOI I	PEAYNILFKGTR-KITLPTYGNYENLQTAHKIRENIDLGLPALSSAITT	136
RTA	LYYSTGGTQLPTLARSFII CIOMISEAARFOYIEGEMRTRIRYNRRSAP	200
MOMOI I	LFYNAQSA-----PSALLVLIQTAEAAARFKYIERHVAKYVATNFK--P	179
RTA	DPSVITLENSWGRLLSTAI--QESNQAFASPIQLQRRNGSKFSVYDVS--	246
MOMOI I	NLAIISLENOWSALS KOIFLAONQGGKFRNPVDLIKPTGERFOVTNVDSD	229
RTA	ILIPIIALMVYRCAPPSSQF	267
MOMOI I	VVKGNIKLLNSRASTADENFITTMTLLGESVVN	263

FIG. 5

FIG. 6

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

009049 888888 888888 888888

RTA	IFPKQYPIINFTTAGATVQSYTNFIRAVRGLTTGADVRHEIPVLPNRVG	50
PAPS	I-----NTITFDAGNATINKYATFMESLRNEAKDPSLKCYGIPMLPTNS	45
RTA	LPINQRFILVELSNHAELSVTLALDVTNAYVVGYRAGNSA-----YFFHP	95
PAPS	---TIKYLKLOGASLKTITMLRRNLYVMGYSDPYDNKCRYHIFNDI	92
RTA	DNQEDAEAITHLFTDVQNRYT--FAFGNYDRLEQLAG-NLRENIELNG	142
PAPS	KGTEYSDVENTLCPSSNPRVAKPINYNGLYPTLEKKAGVTSRNEVOLGIQ	142
RTA	PLEEAI S A L Y Y S T G G T O L P T L A R S F I C I O M I S E A R F Q Y I E G E M R T R I	192
PAPS	ILSSDIGKI--SGGGSFTEKIEAKFLVAIOMVSEARFKYIENQVKTN-	189
RTA	RYNRRSAPDPSVITLENSWGRSLTAIOESNOGAFASPIQLORRNGSKFSV	242
PAPS	-FNRDFSPNDKVLDEENWGKISTAIHNSKNGALPKPLELKNADGTKWIV	238
RTA	YDVSILIPIIALMVRCAPPPSSQF	267
PAPS	LRVDEIKPDVGLLNY--VNGTCQAT	261

	60	70	80	90	100	110
pos	-O-O-O-O+O+O+-	+O+O+O+O+	+O+O+O+O+	+O+O+O+O+	+O+O+O+O+	+O+O+O+O+
bind	=O=O+O+O+O-	+O+O+O+O-	+O+O+O+O-	+O+O+O+O-	+O+O+O+O-	+O+O+O+O-
bury	.	.	.	.	.	.
mod	.	.	.	.	.	.
hh3	xyadSVkGRFTISRddSKNtlyLqMnsLraeDTAVYyCarxxxxxxWGqGLVTvSS					
hh1	xyapxfqgRVtXtrdxSxntayMeLxsLrseDtAVYyCARxxxxxxxxxxwgGtlvtVSS					
hh2	xyxtslsrsltiSkdtSkngvvlxxxxxdpxdlatyyCarxxxxxxxxxxdvwgggtttvtvss					

FIG. 10B

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

0030 44 22 20 52 50 52 50 52 50

\$H65K-1

AGT CGT CGA CAC GAT GGA CAT GAG GAC CCC TGC TCA GTT TCT TGG CAT CCT CCT ACT CTG GTT
TCC AGG TAT CAA ATG TGA CAT CCA GAT GAC TCA GT

HUH-K1

TGA CTC GCC CGG CAA GTG ATA GTG ACT CTG TCT CCC AGA CAT GCA GAC ATG GAA GAT GAG GAC
TGA GTC ATC TGG ATG TC

HUH-K2

TCA CTT GCC GGG CGA GTC AGG ACA TTA ATA GCT ATT TAA GCT GGT TCC AGC AGA AAC CAG GGA
AAT CTC CTA AGA CCC T

HUH-K3

GAT CCA CTG CCA CTG AAC CTT GAT GGG ACC CCA TCT ACC AAT CTG TTT GCA CGA TAG ATC AGG
GTC TTA GGA GAT TTC C

HUH-K4

GGT TCA GTG GCA GTG GAT CTG GGA CAG ATT ATA CTC TCA CCA GCC TGC AAT ATG AAG
ATT TTG GAA TTT ATT ATT G

HUH-K5

GTT TGA TTT CAA GCT TGG TGC CTC CAC CGA ACG TCC ACG GAG ACT CAT ACT GTT GAC AAT
AAT AAA TTC CAA AAT CTT C

HUH-G1

TGT CGA CAT CAT GGC TTG GGT GTG GAC CTT GCT ATT CCT GAT GGC AGC TGC CCA AAG TGC CCA
AGC ACA GAT CCA GTT GGT GCA G

HUH-G2

AAG GTA TAC CCA GAA GCT GCG CAG GAG ATT CTG ACG GAC CCT CCA GGC TTC TTC AGG CCA GGT
CCA GAC TGC ACC AAC TGG ATC T

FIG. 11A

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

HUH-G3
GCT TCT GGG TAT ACC TTC ACA AAC TAT GGA ATG AAC TGG GTG AAG CAG GCT CCA GGA AAG
GGT TTA AGG TGG ATG GGC TGG

HUH-G4
 AAAA GAG AAG GTA AAC CGT CCC TTG AAG TC A TCA GCA TAT GTT GGC TCT CCA GTG TGG GTG TTT
 ATC CAG CCC ATC CAC CTT AAA C

HUH-G5
GAC GGT TTA CCT TCT TGG ACA CGT CTA AGT GCA CTG CCT ATT TAC AGA TCA ACA GCCTCA GAG
CCG AGG ACA CGG CTA CAT

HUH-G6
 AGG AGA CCG TGA CCG TGG TCC CTT GGC CCC AGA CAT CGA AGT ACC AGT CGT AAC CCC GTC TTG
 TAC AGA AAT ATG TAG CCG TGT CCT CGG C

H65G-2S
ACT AGT GTC GAC ATC ATG GCT TGG GT

H65-G2
GAG GAG ACG GTG ACC GTG GT

H65K-2S
AGT CGT CGA CAC GAT GGA CAT GAG GAC

JK1-HindIII
GTT TGA TTT CAA GCT TGG TGC

FIG. 11B

000049.89805260750

APPROVED	O.E. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

pos	10	20	30	40	50
EU	DIQMTQS	PSTLSASVGD	RVITITCRASQS	IN TWLAWYQQKPGKAPKLLMY	KAS
hK1	DIQMTQS	PSSLASVGD	RVITITCRASQX	IS xYLxWYQQKPGKAPKLLIY	aAS
TAC	QIVLTQS	PAIMSASPG	EKVITITCSASS	IS YMHWFQQKPGTSPKLLWIY	TTS
bind	+ - + + + + +	o + + + + + o	+ + + + + + +	- - - o o o + + + + + - - -	- - -
bury	+ - + - + - +	o + + o - + + + + +	- + - + - + + + +	+ + - - - = o = + + + + + o = + - - -	+ + +
mod	• • • • •	• • • • •	• • • • •	• • • • •	•
M/H	H HM	HHM M HH	h M	M MM M	MM
prop	DIQLTQS	PSSMSASPG	DRVTITCRASSS	IS YMHWFQQKPGKSPKLLWIY	TTS
Que	DIQMTQS	PSTLSASVGD	RVITITCSASSS	IS YMHWFQQKPGKAPKLLIY	TTS

pos	60	70	80	90	100
EU	SLESGVPSR	FIGSGSGTE	FTLTISSLQ	PDDFATYYCQQYN	SDS KM FGQGTKV EVK
hK1	xLxsgVPSR	FsGSGSGTx	FTLTISsLQ	peDfATYYCqgyxxxp	xt FGqGtKv eik
TAC	NLASGVPAR	FSGSGSGTS	YSLTISRME	AEADAATYYCHQ	RSTYP LT FGSGTKL ELK
bind	- + o o + o + + +	- + - + - + - + - +	- + + + + + + + + + +	- o - - - - -	- o o + + + + + + + +
bury	+ + o + - o + o - +	- + - + - + - + - +	- + - + - + - + - +	- + - + - + - + - +	- + - + - + - + - +
mod	• • • • •	• • • • •	• • • • •	• • • • •	• • • • •
M/H	M M H	h m	hMhM h	M M M M	M h M m
prop	NLASGVPSR	FSGSGSGTS	YTLTISsMQ	AEADFATYYCHQ	RSTYP LT FGQGTKL ELK
Que	NLASGVPAR	FSGSGSGTE	FTLTISSLQ	PDDFATYYCHQ	RSTYP LT FGQGTKV EVK

FIG. 12A

05

110

FIG. 12B